



21 Griffin Rd. North
Windsor, CT 06095

T 860.298.9692
TRCcompanies.com

April 23, 2020

Mr. Adam G. Fox, P.E.
Principal Engineer
Division of Environmental Compliance
Bureau of Engineering and Construction
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Amie Maines, P.E. / Ronnie Vella

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 8.07-01 (18)
HazMat Inspection – Bridge No. 03240, Route 69 over Mad River, Wolcott, CT
ConnDOT Assignment No. 519-6181
ConnDOT Project No. 166-103
TRC Project No. 289951.6181.0710

Dear Mr. Fox:

TRC performed a limited hazardous materials site investigation associated with the planned replacement of Bridge No. 03240, Route 69 over Mad River in Wolcott, Connecticut. At Bridge No. 03240, there were no painted surfaces identified on the bridge components scheduled for impact as the entire bridge was constructed entirely of unpainted concrete/stone and therefore, no lead paint was identified at the site. The black caulking associated with the expansion joints and the black/grey vapor barrier between the vertical concrete supports and concrete bridge deck were sampled and found to be non-ACM. No bird/pigeon guano accumulations or items of bloodborne pathogens (BBP) concern were observed in accessible areas of Bridge No. 03240. A discarded air conditioner unit (CFCs/Freon) was observed in the river underneath the bridge. Laboratory results, TRC Mobile Data Solutions Report and site description/map are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

Stephen R. Arienti, CHMM
Senior Project Manager – Program Manager

Erik R. Plimpton, P.E., CHMM, CMC
Vice President – Engineer in Charge



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0054764
Project #: 289951.6181.0710
Date Received: 01/31/2020
Date Analyzed: 02/03/2020

Site: Bridge #03240, Route 69, Hillside Dr. & MacCormack Dr., Wolcott, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Black (expansion joint caulk)	Yes	No	--	10% fibrous glass	ND	None
2	Black (expansion joint caulk)	Yes	No	--	10% fibrous glass	ND	None
3	Black/Grey (vapor barrier)	Yes	No	--	30% cellulose	ND	None
4	Black/Grey (vapor barrier)	Yes	No	--	30% cellulose	ND	None

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2020. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2020. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Cathryn Lemire
Cathryn Lemire, Approved Signatory

Date Issued
02/04/2020

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

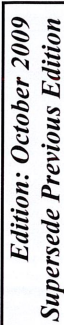
NVLAP Lab Code 101424-0
RI #PLM0007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL910359 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV #000622
NJ #CT004 CA #2907



ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

PROJECT NUMBER

ConnDOT — Bridge #03240,, Route 69 over Mad River Intersection of Hillside Drive and MacCormack Drive, Wolcott, CT

INSPECTOR

David Heelon, Pat Schaffner

--	--

TIME

DATE _____

**SAMPLE
NUMBER**

X

X

X

X

Relinquished by: (Signature)

Date: _____

1

Received

Signature)

120

Relinquish

Relinquished by: (Signature)

Date: _____

R	
---	--

Received by: (Signature)

Remarks:

Remarks: Email results to Erik Plimpton & Steve Orienti. Thanks.

Condition of Samples:

100

1

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

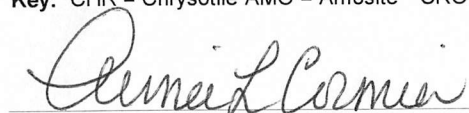
Client Project #: 289951.6181.0710
Client Reference: CT Dot - Bridge 03240, Wolcott, CT
PO #: C289951
Client #: 297
Client Name: TRC Companies, Inc. (CT)

Batch: NT 18146
Method: NOB
Date Received: 2/4/2020
Date Analyzed: 2/6/2020
Date of Report: 2/6/2020

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT136326	1	Expansion Joint Caulk		.3286	.13	.00	.00	.00	.00	.00	26.23	63.51	10.26	TR	Yes	No
NT136327	3	Vapor Barrier		.1835	.00	.00	.00	.00	.00	.00	8.67	87.30	4.03	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected



Aimee Cormier, Analyst

NT 18146

TEM Bulk Chain of Custody Record

						For Lab Use Only	
Client ID #		Lab ID#		Description	Location	Acceptable on Receipt	Comments
1		54764		Expansion Joint Caulk	See COC		
3		54764		Vapor Barrier			
For Lab Use Only		# Spies	Total	Client #	Batch #	Results Reported	Comments

ConnDOT, Bridge #03240, , , , Wolcott, , CT, US, Intersection of Hillside Drive and MacCormack Drive, Route 69 over Mad River

Created	2020-01-31 16:39:59 UTC by David Heelon
Updated	2020-01-31 20:14:57 UTC by Patrick Schaffner
Location	41.8843897313329, -72.7332880201285
Status	■ Survey Complete

Job Information

Site Name	Bridge #03240,
Address	Route 69 over Mad River Intersection of Hillside Drive and MacCormack Drive Wolcott, CT
TRC Project Number	289951.6181.0710
Project Manager	Erik Plimpton, Stephen Arienti
Inspector(s)	Pat Schaffner, David Heelon
Client	ConnDOT
Type of Asbestos Survey	Reno/Demo
Additional Analysis for NOB Materials (Calc)	TEM NY NOB 198.4
PLM Turnaround Time (TAT)	48-hour
TEM Turnaround Time (TAT)	48-hour
Date	2020-01-31
General Notes	All of bridge (top of bridge and underneath bridge) is concrete. Was going to do inspection for lead paint (XRF) however no paint was found either above or underneath the bridge.

Overview Photo



Top of Bridge looking northbound on Route 69 (Wolcott Road)



Top of Bridge looking southbound on Route 69 (Wolcott Road)



Bridge # 03240



Underneath bridge looking northbound. On East side of bridge.



Underneath bridge looking southbound. On west side of bridge.



BSI Daily Job Safety Assessment Briefing

Project Name: Bridge #03240
Work Location: Route 69 (Volcetti Rd) over Mud River, Volcetti, CT
Tasks Performed: Asbestos at the Ashland Properties, LLC
Client Name: Carroll, Inc.
JSA Completed By: Daniel Helein
Date: 11/30/20
Time: 6:30 AM
PM
HASP Available: Yes No
Emergency Evacuation Route: St. Mary's Hospital
Physical Address: 505 Wilcett Rd, Volcetti, CT
Number(s): 911 (203) 879-9700
First Aid/CPR Staff: Qualified Person
For Emergencies Dial 911 - For Non-Emergencies Dial Supervisor First Then Workcare (888) 448-7787

Personal Protective Equipment Required

Yes	No	Procedure/Programs Required	Yes	No	Additional Considerations
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Full Protection	<input type="checkbox"/>	<input type="checkbox"/>	Non-Respiratory (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Respiratory	<input type="checkbox"/>	<input type="checkbox"/>	Respiratory (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hand Protection	<input type="checkbox"/>	<input type="checkbox"/>	Hand Protection (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Eye Protection	<input type="checkbox"/>	<input type="checkbox"/>	Eye Protection (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foot Protection	<input type="checkbox"/>	<input type="checkbox"/>	Foot Protection (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Head Protection	<input type="checkbox"/>	<input type="checkbox"/>	Head Protection (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Body Protection	<input type="checkbox"/>	<input type="checkbox"/>	Body Protection (GMI & GPO) <input type="checkbox"/> Dermal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	Other (GMI & GPO) <input type="checkbox"/> Dermal

Other: None

If Conditions CHANGE... Stop Work, Review, and Revise the Plan!

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BSI Daily Job Safety Assessment Briefing

Environmental Hazards

Slip/Trip/Fall	Chemical	Electrical	Mechanical	Ergonomic	Struck By/Against	Weather
<input checked="" type="checkbox"/> Loose Objects	<input type="checkbox"/> Toxic	<input type="checkbox"/> Shock	<input type="checkbox"/> Equipment Failure	<input type="checkbox"/> Repetitive Motion	<input type="checkbox"/> Vehicles	<input type="checkbox"/> Snow/Ice
<input type="checkbox"/> Poor Maintenance	<input type="checkbox"/> Flammable	<input type="checkbox"/> Live Wires	<input type="checkbox"/> Guard Failure	<input type="checkbox"/> Poor Posture	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Wind
<input type="checkbox"/> Slippery Surfaces	<input type="checkbox"/> Corrosive	<input type="checkbox"/> Static	<input type="checkbox"/> Rotating Parts	<input type="checkbox"/> Awkward Posture	<input type="checkbox"/> Protruding Objects	<input type="checkbox"/> Heat
<input type="checkbox"/> Poor Housekeeping	<input type="checkbox"/> Skin Absorb	<input type="checkbox"/> Fire	<input type="checkbox"/> Heavy Load Carrying	<input type="checkbox"/> Awkward Posture	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Cold
<input type="checkbox"/> Poor Lighting	<input type="checkbox"/> Volatile	<input type="checkbox"/> Live Wires	<input type="checkbox"/> Poor Design	<input type="checkbox"/> Poor Design	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Wind
<input type="checkbox"/> Poor Housekeeping	<input type="checkbox"/> Volatile	<input type="checkbox"/> Live Wires	<input type="checkbox"/> Poor Design	<input type="checkbox"/> Poor Design	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Wind

List hazards associated with this task

Engineering controls/work practices to eliminate or reduce hazards

Post Task Safety Analysis

Did any injury/incident/near miss occur today? If yes, explain: Yes

Were any Safety Observations/Incidents/Concerns/Issues reported to Supervisor/Manager/Team Lead/Other? Yes

What can we do tomorrow to improve performance? Be alert to potential hazards on the job.

Supervisor Signature: Daniel Helein Date: 11/30/20

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Surveys Performed

Asbestos, Hazardous Materials Inventory

Asbestos Section

(2), EJC, Expansion Joint Caulk, 2

Representative Photos





1, Top of Bridge on East side. Located on north and south ends of concrete.

Sample Number

1

Sample Location	Top of Bridge on East side. Located on north and south ends of concrete.
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-01-31
Time	09:10

2, Top of Bridge on East side. Located on north and south ends of concrete.

Sample Number	2
Sample Location	Top of Bridge on East side. Located on north and south ends of concrete.
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-01-31
Time	09:12

Material Information

Sampled or Assumed?	Sampled
Material Acronym	EJC
Material Description	Expansion Joint Caulk
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	At side rails caulking runs down at each end in expansion joint
Notes	Found on the top of bridge at north and south ends of concrete.
Total Count	(2)
Total Count (number only)	2

(2), VB, 1, Vapor Barrier , 2

Representative Photos





3, Underneath bridge on East side between the concrete horizontal part of bridge and the concrete vertical support.

Sample Number	3
Sample Location	Underneath bridge on East side between the concrete horizontal part of bridge and the concrete vertical support.
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-01-31
Time	09:25

4, Underneath bridge on East side between the concrete horizontal part of bridge and the concrete vertical support.

Sample Number	4
Sample Location	Underneath bridge on East side between the concrete horizontal part of bridge and the concrete vertical support.
Analyze by Layer	No
Asbestos Bulk Analysis	PLM EPA 600/R93/116
Grab or Composite	Grab
Date	2020-01-31
Time	09:28

Material Information

Sampled or Assumed?	Sampled
Material Acronym	VB, 1
Material Description	Vapor Barrier
Is Material a Non-Friable Organically Bound (NOB)	Yes
Homogeneous Area	Under bridge inside concrete possibly throughout underside enclosed in concrete
Total Count	(2)
Total Count (number only)	2

HAZMAT Inventory Section

1 window air conditioner unit (Freon). All other waste was non-hazardous litter such as paper cups, soda cans, styrofoam cups, plastic beverage bottles, etc.

Inventory Area Description	1 window air conditioner unit (Freon). All other waste was non-hazardous litter such as paper cups, soda cans, styrofoam cups, plastic beverage bottles, etc.
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Refrigerants (CFCs/Freon), Air Conditioner

Description	Refrigerants (CFCs/Freon), Air Conditioner
Common Name	Window unit air conditioner
Quantity	1
Size	Typical sized window a/c unit.

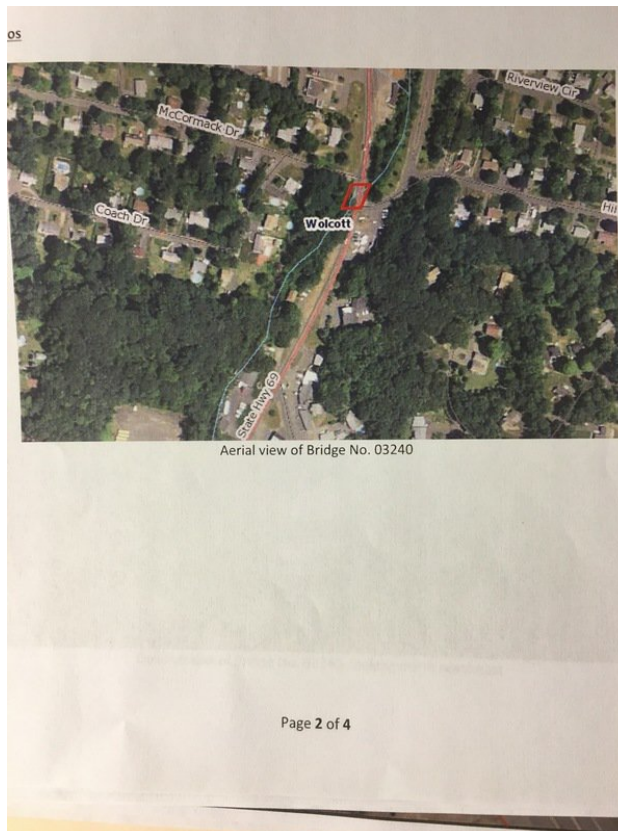
Photo



**** PLEASE CONSIDER THESE GUIDELINES WHEN ADDING A HAZ ITEM **** 1) When selecting the "HAZMAT Item Description", be sure to check ALL pre-defined options before selecting "Other" and entering a custom option. 2) You only need to enter a "HAZMAT Item Common Name" if the "HAZMAT Item Description" isn't specific enough to sufficiently describe the hazardous material.

General Information

Site Sketch Diagrams



Signature

Dr. Huelin

Signed 2020-01-31 17:06:31 UTC

Asbestos Samples Submitted to TRC Lab	Yes
Date Submitted to Lab	2020-01-31
App Name	WinBSI HBM Survey 1.0

Generate Report Documentation

Select one or more documents below to be generated. Once completed in the cloud, they will be sent to the listed email address. Please report any difficulties or errors to Justin Coleman.

What documents should be generated?	Asbestos chain-of-custody
Where should the document(s) be sent?	pschaffner@trcsolutions.com
Generate Documents	N/A

PROJECT DESCRIPTION

State Project Number: 166-103

Town: Wolcott

Bridge Number: 03240

Route 69 (Wolcott Road) over Mad River

Project Background

Bridge No. 03240 is currently in the preliminary design phase under the Connecticut Department of Transportation (ConnDOT) Bridge Program for structures requiring major rehabilitation or replacement.

Existing Conditions

Bridge No. 03240 is a concrete slab bridge that carries Route 69 (Wolcott Road) over Mad River in the Town of Wolcott. The bridge was originally built in 1900 and reconstructed in 1935. It consists of a concrete slab structure that is 24' (19'-0" structural span, 15'-3" hydraulic opening) in length with an out-to-out width of 35'-4". At this location, Bridge No. 03240 carries two lanes of Route 69, one in each direction. It has a functional classification of Urban – Other Principal Arterial. The Average daily traffic (ADT) for Route 69 at this location is 12,900 vehicles with 4% truck traffic.

Purpose and Need Statement

The purpose of this project is to address items identified in recent inspections. Based on field inspections, engineering analysis, and a review of ConnDOT's Bridge Inspection Reports, Bridge No. 03240 was found to be structurally deficient. The inspections noted the following concerns with the current state of Bridge No. 03240:

- Extensive deck deterioration and corroded exposed reinforcement
- Moderate to severe scale at the abutment footings
- Sections of cracked, missing mortar and small mortar voids in the masonry abutments

Proposed Project

Bridge No. 03240 is proposed to be replaced with a new 36'-6" span (15'-3" hydraulic opening, existing substructure to remain in place), galvanized steel beam superstructure which is supported on new pile-supported precast concrete stub abutments. The proposed roadway will be widened to 38'-10" out-to-out width including two 12'-0" travel lanes, a 5'-0" ± wide west shoulder, and a 5'-10" ± wide east shoulder. Concrete approach slabs, 42" high bicycle railing, and MBR (MASH) guiderails will be installed as part of this project. Full depth roadway reconstruction will be required on the Route 69 approaches. Installation of two new catch basins at the north side of the bridge that outlet at the northwest corner of the bridge is also proposed. Temporary relocation of overhead utility wires and poles is necessary to facilitate crane operations.

The proposed maintenance and protection of traffic involves a full closure of Route 69 and detour of traffic for two weeks at the beginning of the construction season to install piles. Another full closure and detour are proposed for two months (July and August) to demolish the existing superstructure and construct the new bridge elements.

Project Timeframe

The anticipated FDP date is 6/17/2020 with construction starting 4/1/2021.

Cultural Resources

There are residential and commercial properties within the vicinity of the site. A protected open space area owned by Wolcott Land Conservation Trust is located west of the bridge. Rene's Auto Services & Sales is located to the south and several commercial properties are located approximately 260 ft. north of the project area. There is a medical supply company at the northeast corner of the bridge.

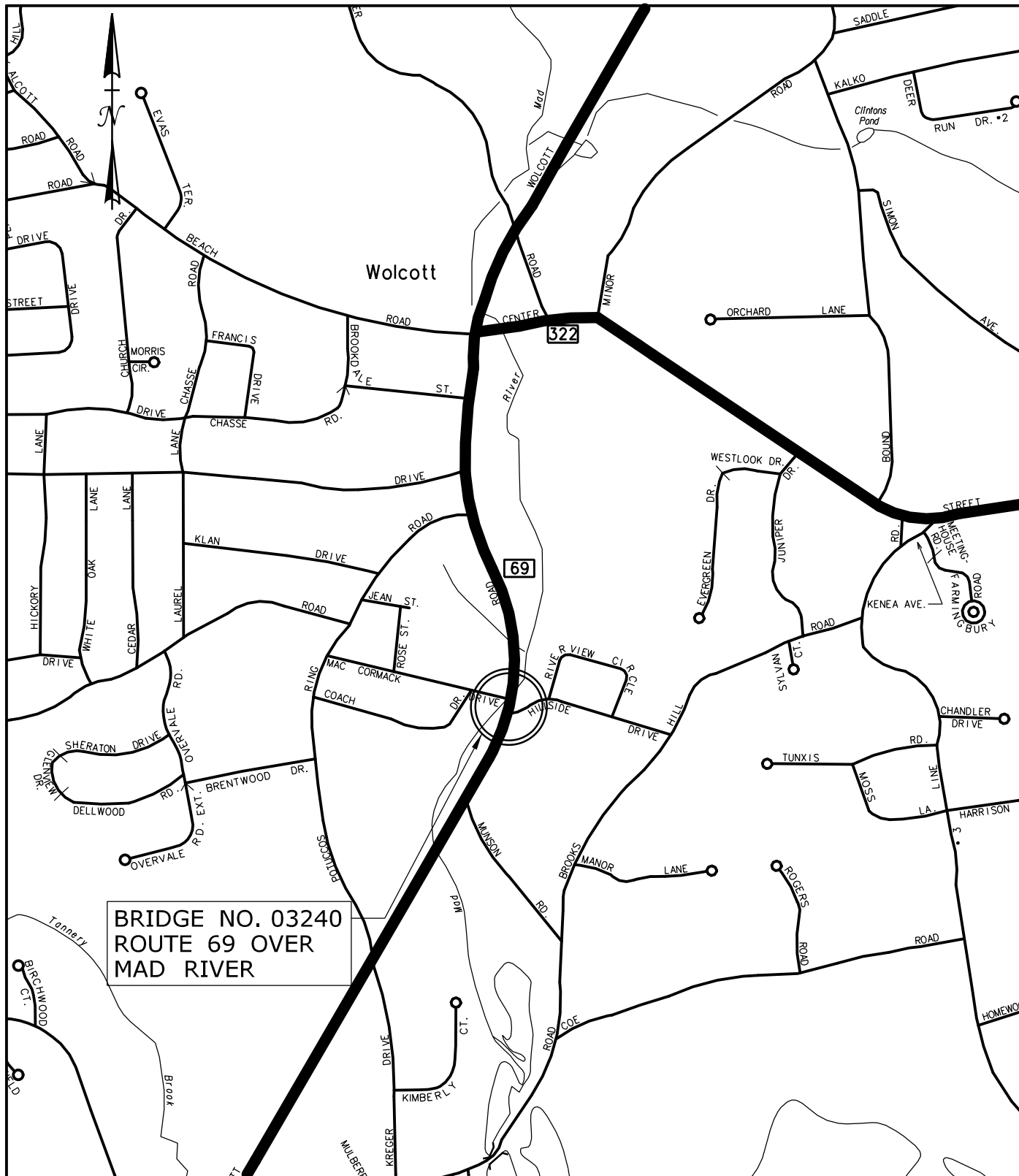
Environmental Resources

The Mad River flows north to south beneath Bridge No. 03240. Strips of wetlands are associated with the watercourse that flows through the bridge, near the inlet and outlet. The bridge is not mapped within a Natural Diversity Database Area per December 2016 nor is it located in an aquifer protection area. The project is located within the Mad River sub-regional drainage basin #6914 and Naugatuck regional drainage basin #69

Photos



Aerial view of Bridge No. 03240



BRIDGE NO. 03240
ROUTE 69 OVER
MAD RIVER

SCALE IN FEET



STATE PROJECT NO.:

166-103

CITY/TOWN:

WOLCOTT



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



BRIDGE NO. 03240
LOCUS MAP



CME ASSOCIATES, INC.
32 Crabtree Lane, Wolcott, CT 06811
203 East River Drive, East Hartford, CT 06108
50 Elm Street, Southbridge, MA 01550
888-291-3227 | www.cmeengineering.com

DATE:

03/19/2019

SHEET NO.:

1 OF 1